

Date: Wed, 22 Sep 93 21:59:38 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #1127  
To: Info-Hams

Info-Hams Digest                      Wed, 22 Sep 93                      Volume 93 : Issue 1127

Today's Topics:

    Antenna Covenants AGAIN (but now with a twist!)

        Emergency: cellular vs ham (was Re: Ya

Emergency: cellular vs ham (was Re: Yagi for Cellular Phone?)

    FCC Preempts scanner laws for amateur transcievers

        How to draw schematics...?

        HR2600 problem

        HTs Airlines and Morris (2 msgs)

    Icom 24AT weak xmit audio (2 msgs)

        Ramsey FX-440 kit information

        Want Used HT.

        writing speed

    YAESU FT757 GXII INFORMATION.

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 22 Sep 93 18:36:38 GMT  
From: ogicse!hp-cv!sdd.hp.com!col.hp.com!srigenprp!alanb@network.ucsd.edu  
Subject: Antenna Covenants AGAIN (but now with a twist!)

To: info-hams@ucsd.edu

Kris Mraz (mraz@maverick.aud.alcatel.com) wrote:  
: Steve London, N2IC/0, writes:

: >This is exactly why neither the ARRL nor the FCC is interested in extending  
: >PRB-1 to address covenants - It simply isn't perceived as a problem in  
: >Newington or Washington.

: I spoke directly with Chris Imlay, N3AKD, the ARRL General Council, at  
: HAMCOM last June. He addressed this very subject by saying that he and  
: others are doing the research to substantiate the fact that more and  
: more new home developments around the country have severely restrictive  
: covenants against antennas. The ARRL IS, in fact, very concerned about  
: this situation. ...

The main problem is that it is (legally) much easier to attack government  
restrictions than CCNR's. (CCNR's are considered contracts between  
private parties.) I'm sure that's the reason the ARRL hasn't had much  
luck attacking them so far.

AL N1AL

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Date: 22 Sep 93 22:19:12 GMT  
From: korie!newscast.West.Sun.COM!sunspot!myers@RUTGERS.EDU  
Subject: Emergency: cellular vs ham (was Re: Ya  
To: info-hams@ucsd.edu

In article 9vK@news.Hawaii.Edu, jherman@uhunix3.uhcc.Hawaii.Edu (Jeff Herman)  
writes:

>In article <l3nzgffj@dixie.com> jgd@dixie.com (John De Armond) writes:

>>jherman@uhunix3.uhcc.Hawaii.Edu (Jeff Herman) writes:

>>>Jeff NH6IL

>>

>>>I'm amazed that someone with an obviously very new callsign would question

>John, you should know better than to try to judge how long a person has  
>been licensed by their callsign; your WD4 call doesn't sound too old!

>I received my General class license in 1976 with the call WA6QIJ. When I moved  
>to Hawaii in '77, I hoped to get a KH6 callsign but the FCC gave me the call  
>WH6AEQ (yuck); the next time around they gave me my present call.

Many people mistakenly assume I'm a new ham when they hear my KK6JQ call.  
It is novel to have someone born about the time I got my license giving  
me tips on operating ;-)

>And concerning Gary's poor argument in trying to associate the breakup  
>of his club with incentive licensing, I guess we should also blame Hurricane  
>Andrew on all those high speed Morse people - pumping all that code into  
>the atmosphere surely must have created the low pressure cell which bore  
>Andrew. In fact, let's blame everything bad in the world on high speed code  
>operators!

Blaming everything bad in the world on high speed code operators is only fair given that it has been popular on the rec.radio.amateur.\* groups to blame the ills of the world on non-coded operators. No?

---

\* Dana H. Myers KK6JQ, DoD 466 | Views expressed here are  
\*  
\* (310) 348-6043 | mine and do not necessarily \*  
\* Myers@Cypress.West.Sun.Com | reflect those of my employer  
\*  
\* This Extra supports the abolition of the 13 and 20 WPM tests \*

-----  
Date: 22 Sep 93 18:25:32 GMT  
From: ogicse!hp-cv!sdd.hp.com!col.hp.com!srngenprp!alanb@network.ucsd.edu  
Subject: Emergency: cellular vs ham (was Re: Yagi for Cellular Phone?)  
To: info-hams@ucsd.edu

Matthew Rapaport (mjr@netcom.com) wrote:

: Lastly a comment on technology itself... I've been involved in  
: reporting three big highway accidents in the last 12 months. In each  
: case I was not the eye witness, but thy guy who answered the radio  
: and called 911 when the eye witness came on the air. In every case,  
: a driver with a cellular phone had beaten us HAMS to the punch!

I wonder how many of the cellular reporters were also beaten to the punch (by other cellular calls.) It could be that the reason hams often are not first is simply that there are a lot fewer of us. It normally shouldn't take any longer to dial 911 on the autopatch than on a cellular phone.

AL N1AL

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Date: 22 Sep 93 20:02:49 GMT  
From: walter!porthos!dancer!whs70@RUTGERS.EDU  
Subject: FCC Preempts scanner laws for amateur transcievers  
To: info-hams@ucsd.edu

FCC Gives Hams new protection against scanner laws'

An FCC decision announced 8/20/93 as a result of PR Docket 91-36 gives Amateur Radio operators a powerful new tool to use against ill-conceived local and state laws and ordinances.

The essence of the FCC's decision, based on the ARRL motion for a declaratory ruling is:

"We (the FCC) hold that state and local laws that preclude the possession in vehicles or elsewhere of amateur radio service transceivers by amateur operators merely on the basis that the transceivers are capable of the reception of public safety, special emergency, or other radio service frequencies, the reception of which is not prohibited by federal law, are inconsistent the federal objectives of facilitating and promoting the amateur radio service and, more fundamentally, with the federal interest in amateur operators' being able to transmit and receive on authorized amateur service frequencies.

"We therefold hold that such state and local laws are preempted by federal law."

-----The above was excerpted from "The ARRL Letter," Vol 12, #17, September 14, 1993, published by the Amateur Radio Relay League (ARRL), Newington, CT.

-----end of excerpted material-----

The above FCC action will do at least one thing immediately...Michigan is the only state which restricts amateurs to any degree. Michigan does not include Novice license holders in their state law's exemption. With this new FCC decision, a Novice in Michigan need not worry about falling prey to the Michigan scanner law because s/he has an amateur tranceiver in the car with extended receive capability.

To the best of my knowledge, the few other states with scanner laws that prohibit radio receiving equipment (e.g. scanners and/or amateur transcievers) in vehicles, all have exemptions for licensed amateur operators.

The main value of this FCC ruling will be against those local governments (e.g. cities, counties, townships, etc.) where similar bans against radio receivers in automobiles have been enacted. Likewise, it is a valuable tool against the possibility of other states enacting similar prohibitions, without specifically exempting hams, where none may now exist.

The ARRL Letter indicated a full write-up on this FCC action will be in the November QST.

Standard Disclaimer- Any opinions, etc. are mine and NOT my employer's.

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Bill Sohl (K2UNK) BELLCORE (Bell Communications Research, Inc.)  
Morristown, NJ email via UUCP bcr!cc!whs70  
201-829-2879 Weekdays email via Internet whs70@cc.bellcore.com

-----  
Date: 22 Sep 93 06:48:56 GMT  
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!spool.mu.edu!news.clark.edu!  
netnews.nwnet.net!ns1.nodak.edu!plains!ndsuvml!ud173191@network.ucsd.edu  
Subject: How to draw schematics...?  
To: info-hams@ucsd.edu

Well, I've finally finished my 25A power supply and got it all tested and stuff...but now I need to commit the revisions of the design to paper, lest I forget them. Is there a good program available via FTP to draw out schematic diagrams and print them? I tried briefly with a paint program, but soon discovered that this was an exercise in futility.

Reply here or via email, I check both.  
ud173191@ndsuvml.bitnet            -or-        ud173191@vm1.nodak.edu  
Greg Moore

N00DQ@WA0JXT

-----  
Date: 22 Sep 93 17:48:04 EST  
From: dale.ksc.nasa.gov!titan.ksc.nasa.gov!k4dii.ksc.nasa.gov!user@ames.arpa  
Subject: HR2600 problem  
To: info-hams@ucsd.edu

In article <1993Sep22.134252.24219@kd4nc.uucp>, n4tii@kd4nc.uucp (John Reed) wrote:

> It does not matter which way I turn the knob, but whichever way I do turn it, it always wants to dial up.

John-

As I understand it, the knob is attached to a slotted disk, with a pair of LED's shining through the slots, detected by corresponding photo-diodes. Because of the locations of the LED's, the time relationship between the output pulses is an indication of A) the fact that the knob was turned, and B) the direction it was turned.

I suspect that one of the LED/photo-diode sets is not working. It could be as simple as a piece of trash or a small insect blocking the light path. It could be a bad LED, a bad photo-diode, or other component in that circuit. It could be a bad solder connection in the same area.

The HR-2600 seems to have a reputation for problems. I finally got one with no major bugs, on the third try. Each of the first two had a

different problem. The microphone element on the third unit went bad after a few months, and it still has a jury-rigged replacement. They apparently don't sell a genuine replacement microphone or element.

I finally solved the problem by getting a Kenwood TS-50S. It is really a dream rig for mobile use.

73, Fred, K4DII

-----  
Date: Wed, 22 Sep 1993 16:53:18 GMT  
From: library.ucla.edu!agate!howland.reston.ans.net!spool.mu.edu!sgiblab!a2i!davidj@network.ucsd.edu  
Subject: HTs Airlines and Morris  
To: info-hams@ucsd.edu

In <27o3fjINNro8@topaz.bds.com> ron@topaz.bds.com (Ron Natalie) writes:

> The Captain did come on the intercom and announce that "transmitting devices"  
> were not allowed to be energized while the plane was in the air due to FAA  
> regulations. (They did not cite which regulations in particular. Nor could  
> they after the flight when I specifically asked the Captain on leaving the  
> plane.)

>Section 91.21. Why do you insist on causing trouble?

Dear Ron,

He insists on causing trouble because he would then be able to transmit Morris Koad from a Morris Airlines flight.

--  
David Josephson <david@josephson.com>

-----  
Date: 23 Sep 93 04:21:18 GMT  
From: mnemosyne.cs.du.edu!nyx!rchalk@uunet.uu.net  
Subject: HTs Airlines and Morris  
To: info-hams@ucsd.edu

jangus@skylld.tele.com (Jeffrey D. Angus) writes:

>In article <27o3fjINNro8@topaz.bds.com> ron@topaz.bds.com writes:

> [ apparently quoting jangus@skyld.tele.com ]  
> >  
> > The Captain did come on the intercom and announce that "transmitting  
> > devices" were not allowed to be energized while the plane was in the  
> > air due to FAA regulations. (They did not cite which regulations in  
> > particular. Nor could they after the flight when I specifically asked  
> > the Captain on leaving the plane.)  
> >  
> > Section 91.21. Why do you insist on causing trouble?

> Who's causing trouble? I didn't insist that it was my God given right to  
> transmit. Nor did I try and sneak a QSO while in flight. I left the HT in  
> carry-on bag and asked for a clarification of which FAA regulation they  
> (the captain and/or Morris Air Service) were refering to.

> Too many times in our society some person will take it upon themself to  
> say "Do this" or "Don't do that" based on their own personal ideas and  
> then when questioned will attempt to put it off on "The Rules" without  
> being able to cite either the rule or the document containing the rule.

> As an aside, Julian Macassey was told once that he couldn't purchase RG-6  
> coax since the FCC prohibited the sale to consumers. I'd love to see where  
> it says that in print.

> There are plenty enough rules in this society restricting what I can do  
> without having to put up with vapor-rule invented on the spot by some  
> petty bureaucrat. As an example of this abuse, I would suggest trying to  
> get something unusual done wither in a bank or at a vehicle registration  
> center. You will usually encounter some middle manager or clerk that decides  
> "Can't do that" and then says, "Those are the rules" without being able to  
> prove it.

> As a tribute to not having to accept that, I have managed to cash checks in  
> banks without a credit card, and have managed to get a PO box on my Drivers  
> license.

> Perhaps you meant instead that I was "causing trouble" by using the word  
> Morris and or my insuinating that I could only use my HT if connected to  
> a hand key.

> As to section 91.21 of the rules, which rules is that a part of? FCC or FAA  
> regulations. Where can I obtain a copy of it.

> In the words of Aristotle, "Question Authority".

> Amateur: WA6FWI@WA6FWI.#SOCA.CA.USA.NA | "It is difficult to imagine our  
> Internet: jangus@skyld.tele.com | universe run by a single omni-

> US Mail: PO Box 4425 Carson, CA 90749 | potent god. I see it more as a  
> Phone: 1 (310) 324-6080 | badly run corporation."

As an interesting, if somewhat disjointed followup, I recently (tuesday) flew on Delta, and they have finally defined quite specifically the items which may and may not be operated during flight. They specifically prohibit commercial, amateur, CB, and 49 MHZ transceivers, as well as "devices intended to radiate RF energy on a specific frequency", oh, and Radio Controlled toys. They specifically permit scanners, cd players, DAT players, cassette players, Video recorders and players, and Notebook computers, as long as nothing such as a mouse or printer is connected via an external cable. This list may not be all, as I am doing this by memory, but at least they have tried to be reasonable. Oh yes, Radio and TV receivers are not allowed either.

They say that use of all electronic equipment is not permitted during Taxi, Takeoff, Climbout, Descent, or Landing, and use the Seat Belt sign as an indicator.

They do not cite any FCC rules, and they say "Delta air lines does not permit...." I assume since they own the plane, they get to make the rules.

Richard

-----  
Date: 22 Sep 93 18:04:59 GMT  
From: ogicse!uwm.edu!linac!att!cbnewsm!hellman@network.ucsd.edu  
Subject: Icom 24AT weak xmit audio  
To: info-hams@ucsd.edu

I noticed a friend using his Icom 24AT, He had to touch his lips to the case to get audio out! I think I remember seeing this recently discussed. Anyone recall the fix? (I checked to see if there were slots in the case and there seemed to be speaker and mic slots)  
tnx Shel WA2UBK dara@physics.att.com

-----  
Date: 22 Sep 93 17:31:18 EST  
From: dale.ksc.nasa.gov!titan.ksc.nasa.gov!k4dii.ksc.nasa.gov!user@ames.arpa  
Subject: Icom 24AT weak xmit audio  
To: info-hams@ucsd.edu

In article <CDrowI.K6v@cbnewsm.cb.att.com>, hellman@cbnewsm.cb.att.com (eric.s.hellman) wrote:

> I noticed a friend using his Icom 24AT, He had to touch his lips



> to the case to get audio out! I think I remember seeing this recently  
> discussed.

Shel-

Although a few have sworn they get good audio out of their IC-24AT, I have heard several that had the low audio problem. When I first got mine, I found average deviation set for about 3/4 KHz, peak set for about 3 Khz, on both VHF and UHF. There are separate VHF and UHF peak deviation adjustments. There is no microphone gain adjustment for setting average modulation.

I took it back to Amateur Electronic Supply, where they adjusted the VHF peak deviation to about 4.5 KHz. (At that time, the service manual wasn't yet available.) Average is now about 1 KHz, talking in a normal voice, an inch away from the microphone. I also tried a new microphone element, an old Icom speaker-microphone and a new Radio Shack speaker-microphone, all with similar results. Actually, the external microphones may be a little better, if you can talk closer to the element.

As far as I can tell, there is nothing specific defective with mine. I corresponded with an Icom person, who told me there was no "mod" for it, and that it had been intentionally set low, because of "complaints about background noise". I suspect they just don't want to admit liability!

If your friend has the capability, I recommend that he adjust peak deviation to 5.0 KHz, with CTCSS turned ON, adjusting both the VHF and UHF controls. Then, always talk close to the microphone, which is located at the lower right-hand corner of the speaker opening. (You can see it if you hold the radio at the correct angle.) It would be desirable to have access to a service manual.

73, Fred, K4DII

-----  
Date: 22 Sep 93 19:23:07 GMT  
From: korie1!newscast.West.Sun.COM!sunspot!myers@RUTGERS.EDU  
Subject: Ramsey FX-440 kit information  
To: info-hams@ucsd.edu

Here's a copy of an old article from rec.radio.amateur.homebrew:

---Start of Included Text---  
Article: 207 of rec.radio.amateur.homebrew  
From: lkraft@core.rose.hp.com (Lyle Kraft)  
Subject: Re: What equipment to tune up a Ramsey 146?  
Date: Mon, 19 Jul 1993 19:33:45 GMT

X-Newsreader: TIN [version 1.1.8 PL6]  
Content-Length: 2155  
Status: R0  
X-Lines: 51

Dana H. Myers (dana@lando.la.locus.com) wrote:

(stuff deleted)

: >  
: >My experience with home-built VHF gear suggests you \*really need\* to verify  
: >the purity of your transmitted signal using a spectrum analyzer. The  
: >variation I've seen from one person to another assembling kits raises the  
: >very real possibility that one could build a kit, check it out on the  
: >local repeater, and think everything is fine, but really be generating  
: >a signal that contains many undesired and illegal spurious outputs.  
: >

This is \_VERY\_ good advice. I built the FX-440 (440 MHz FM transceiver) and found that it's design left a lot to be desired. There was so much L.O. radiation off the PCB that just moving your tools around on the bench would pull the VCO. And it also coupled back into the PLL circuitry so much that the spectrum consisted of a carrier with 25 kHz spurs on both side out to several hundred kilohertz with the first pair being only -25 dBc. I ended up having to fabricate a metal cover for the L.O. and divider, and this cleaned things up nicely. The designer didn't seem to pay much attention to ground loops/returns.

Not to mention that several parts were missing, and opening the squelch causes an obnoxious 'pop', .....

: >  
: >I know I sound like a spoil-sport, but Ramsey kits in general make me  
: >suspicious that even the properly built kits reliably meet the -60dBc/  
: >25 uW max limit for spurious output on a 2m rig....  
: >

I'd be surprised if it was this good. For the price it wouldn't be such a bad deal if they were more careful with the design.

73,

L

=====

#####	Lyle Kraft	AA6LK
	Hewlett-Packard	

```
##### /_ _ #####      System Interconnect Lab -
##### / / _/ #####      Information Networks Division
##### / #####      Roseville, CA 95747
#####          916-785-5798
#####          lkraft@core.rose.hp.com
```

-----End of Included Text---

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- \* Dana H. Myers KK6JQ, DoD 466 | Views expressed here are
- \*
- \* (310) 348-6043 | mine and do not necessarily \*
- \* Myers@Cypress.West.Sun.Com | reflect those of my employer
- \*
- \* This Extra supports the abolition of the 13 and 20 WPM tests \*

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Date: Wed, 22 Sep 1993 18:16:25 GMT  
From: news.cerf.net!pagesat!netsys!agate!howland.reston.ans.net!  
sol.ctr.columbia.edu!news.kei.com!news.oc.com!merlin.etsu.edu!  
gumaer@network.ucsd.edu  
Subject: Want Used HT.  
To: info-hams@ucsd.edu

Hello all, I am a poor college student and I'm looking for a used Ht in good condition. It doesn't have to be fancy but, however, It does need a dtmf pad. I don't care how old it is, but it also needs a synthesized rig.

If interested, please E-Mail me at : gumaer@merlin.etsu.edu

Thank you.

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Mark Gumaer (KA5YUV) | Vice-President-Elect Radio East Texas State University  
gumaer@merlin.etsu.edu | Editor Radio E.T.S.U. Newsletter  
| Phone (903) 886-2084 (on weekdays)  
| (903) 356-2253 (on weekends)  
| FAX (903) 886-2084  
| Ham Radio 146.78 or 147.02 Mhz

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AKA: Don Begal in Duelmasters, Jurine DM61

Goomar in Adventures Guild, Antar

Date: 22 Sep 93 18:38:50 GMT  
From: ogicse!hp-cv!sdd.hp.com!col.hp.com!srngenprp!alanb@network.ucsd.edu  
Subject: writing speed  
To: info-hams@ucsd.edu

David Hough (dave@llondel.demon.co.uk) wrote:  
: The trick is not only to write at 20wpm but to be able to read it afterwards!  
: :-)

Ain't that the truth! When I passed the W1AW 40 wpm code proficiency test, I went back and typed out my hand-written copy. I doubt that anyone but me could have read it!

AL N1AL

Date: 22 Sep 93 11:33:46 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: YAESU FT757 GXII INFORMATIONS.  
To: info-hams@ucsd.edu

Hello,

I need informations about the connection between a YEASU FT 576 GX II and a Baycom Modem Compatible.

I need also informations about the CAT system on the Yeasu and the availability of programs developped for the FT 757 GXII or for the CAT System.

Beaujeant Pascal	tel	+32 (81) 72 50 13	
F.U.N.D.P. Computing Center	fax	+32 (81) 72 50 23	
Rue Grandgagnage, 21	internet	pbj@info.fundp.ac.be	
B5000 Namur Belgium		pbeaujeant@cc.fundp.ac.be	
	AppleLink	FUNDP.BPG	

-----  
Date: 22 Sep 1993 18:28:54 GMT  
From: drt@athena.mit.edu  
To: info-hams@ucsd.edu

References <1993Sep20.201346.2477@porthos.cc.bellcore.com>,  
<CDpto8.65q@bigtop.dr.att.com>, <27pfv6\$q94@gopher.cs.uofs.edu>on.mit.e  
Subject : Re: Antenna Covenants AGAIN (but now with a twist!)

In article <27pfv6\$q94@gopher.cs.uofs.edu>, bill@triangle.cs.uofs.edu (Bill  
Gunshannon) writes:  
|> In article <CDpto8.65q@bigtop.dr.att.com>, n2ic@longs.att.com (131A20000-  
LondonSM(DR2305)224) writes:  
|> |>  
|> |> There are about 500,000 hams in the US now. When are we going to become  
|> |> a political force, capable of influencing these developers ?  
|> |>  
|>  
|> Well, let's see. 200,000,000 people, 500,000 hams, I make that  
|> to be .25% How much of a political force are you looking for??  
|>

But then, this country is run by clamorous minorities.

-drt

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-----  
David R. Tucker           KG2S                   drt@mit.edu
'Most political sermons teach the congregation nothing except
what newspapers are taken at the Rectory.' -C.S. Lewis
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Date: Wed, 22 Sep 1993 12:04:08 GMT  
From: elroy.jpl.nasa.gov!swrinde!cs.utexas.edu!utnut!torn!nott!pnfi!  
lmarshal@ames.arpa  
To: info-hams@ucsd.edu

References <27cf77\$7d1@bigguy.eng.ufl.edu>, <CDIBp4.9IG@hermes.hrz.uni-  
bielefeld.de>, <27cu84\$9rg@bigguy.eng.ufl.edu>  
Subject : Re: need expert info on nicads.

In <27cu84\$9rg@bigguy.eng.ufl.edu> thoman@helios.tcad.ee.ufl.edu (Greg Thoman)  
writes:

```
> On another note, a recent poster quoted a PowerSonic tech manual
>as recommending discharge before storage. I wonder if we could get a
>little context surrounding that quote. Is it based on battery longevity
>or is it based on safety (since accidental shorting of a NiCd can be
>dangerous)?
```

Yes... are the PowerSonic cells to be used as receiver batteries or as motor batteries in electric airplanes? If the later they are probably rapid charge nicads and most manufacturers recommend these be stored in a discharged state while at the same time recommending that their slow-charge cells be stored in charged state.

-----  
Larry Marshall                               lmarshall@pnfi.forestry.ca  
Natural Resources Canada                  (613) 589-2880  
Petawawa National Forestry Institute     (613) 589-2275

End of Info-Hams Digest V93 #1127

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